

SIPOVSKIY, G.V.; SHMAGIN, Ya.G.; MADISSON, E.G.

Certain data on the removal of carboxylic acids from shale-tar fractions. Khim. i tekhn. gor. slan. i prod. ikh perer. no.11: 296-306 '62. (MIRA 17:3)

KIZILOVA, Ye.G.; SHMAGINA, M.A.

How the type of pollination affects the germination and the
force of initial growth of corn seeds. Agrobiologiya no.4:
568-572 Jl-Ag '60. (MIRA 13:8)

1. Ukrainskiy institut rasteniyevodstva, g. Khar'kov.
(Corn (Maize)) (Fertilization of plants)

SHMAGINA, M.D.; USMANOVA, G.M.

Endemic goiter in Shugurovsk District, Tartar A.S.S.R. Probl.endok.
i gorm. 5 no.4:101 Jl-Ag '59. (MIRA 13:2)

1. Iz kafedry obshchey gigiyeny (zaveduyushchiy - zasluzhennyy deyatel' nauk RSFSR i TASSR prof. V.V. Miloslavskiy) Kazanskogo gosudarstvennogo meditsinskogo instituta.
(GOITER statist.)

SHMAGLIY, N. M.

Dissertation defended for the degree of Candidate of Historical Sciences
at the Institute of Archeology 1962.

"Late-Tripol'skiye Settlement at Volyna."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

SHMAGINA, N.N.

Preparation of succinic acid and its ester. V. I. Lutkova
and N. N. Shmagina. *Zhur. Priklad. Khim.* 29, 1438-9
(1956). To 25 ml. HNO₃ (65%) was added at 25-30° a
few drops of tetrahydrofuran and after the reaction had
commenced, the flask was cooled with ice to keep the temp.
at about 25-30° while 36 g. tetrahydrofuran was added; after
3 hrs. the mixt. was allowed to crystallize, yielding 90%
(CH₂CO₂H)₂, which after washing with dil. HNO₃ m. 183°.
Azeotropic esterification with alc. (average C₄) in (CH₂Cl)₂
with p-MeC₆H₄SO₃H as catalyst gave the mixed esters, b.p.
225°, d₄ 0.9150, n_D²⁰ 1.4510. The product is suitable for
plasticizer use. G. M. Kosolapoff

S/191/60/000/004/011/015
B016/B058

AUTHORS: Lutkova, V. I., Shmagina, N. N.

TITLE: Production of 2,5-Furan Dicarboxylic Acid and Its Dimethyl Ester From Furfurole

PERIODICAL: Plasticheskiye massy, 1960, No. 4, pp. 56-57

TEXT: The authors report on the synthesis of 2,5-furan dicarboxylic acid and its dimethyl ester from furfurole, which warrants an increased yield. Since one of the intermediate products in the customary process, viz., the methyl ester of 5-chloro-methyl-2-furan carboxylic acid, has a strongly vesicant effect on the skin, the authors conducted the chloromethylation in the well-known process (Refs. 3-11) via the butyl ester of 2-furan dicarboxylic acid. The resulting chloro-methyl derivative irritates the skin only slightly. The yield of ester in the esterification of 2-furan dicarboxylic acid with butyl alcohol in the presence of H_2SO_4 as catalyst amounts to 95-96%. The chloromethylation of the ester occurs rather quickly, a yield of up to 90% of the chloro-methyl derivative (related to the same ester) being obtained. The butyl ester of 5-chloro-methyl-2-furan

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Production of 2,5-Furan Dicarboxylic Acid and
Its Dimethyl Ester From Furfurole

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dicarboxylic acid is oxidized with HNO_3 directly to 2,5-furan dicarboxylic acid (yield: 80% related to the chloro-methyl derivative). The dimethyl ester of this acid was obtained by ordinary esterification. There are 15 references: 6 Soviet, 3 Italian, 1 Japanese, 1 German, and 3 US.

J

Card 2/2

SHMAGINA, N.N.; MOSHKIN, I.S.

Obtaining 5-hydroxymethyl-2-furancarboxylic acid and its
butyl ester. Plast. massy no. 2:51-52 '64. (MIRA 17:8)

L 15167-65 EFT(c)/EWP(j)/EWA(c)/EWT(m) PC-4/PR-4 RM

S/0191/65/000/004/0058/0058

2G

B

ACCESSION NR: AP5009324

AUTHORS: Shmagina, N. N.; Moshkin, P. A.

TITLE: Production of butyl ester of 5-cyanomethyl-2-furoic acid and its saponification

SOURCE: Plasticheskiye massy, no. 4, 1965, 58

TOPIC TAGS: ester, cyaniding, organic synthesis

ABSTRACT: The authors synthesized the butyl ester of 5-cyanomethyl-2-furoic acid, a compound not previously described in the literature. During aqueous alkali saponification of this compound for 3 hours, with simultaneous distillation of butyl alcohol and blowing off of ammonia, 5-carboxymethyl-2-furoic acid was obtained with a yield of 70-73%. The butyl ester was obtained by placing potassium cyanide in a flask with dimethylformamide. The chloromethyl derivative of the butyl ester of 2-furoic acid was added from a dropper funnel at 20°C, the flask being shaken to produce a suspension. The mixture was held at 20°C for one hour, then heated at 45°C for another hour. It was then cooled, the inorganic salt filtered off, and washed in dimethylformamide. The solvent was then distilled from the filtrate. The remaining product was distilled in a vacuum.

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L 45467-65

ACCESSION NR: AP5009324

The yield was 50% of the theoretical. The use of distilled dimethylformamide during subsequent cyaniding increased the yield to 57% of theoretical. The boiling point is 155-157°C (1 mm), $d_4^{20} = 1.1119$, $n_D^{20} = 1.4890$. Measured composition gave 63.7% C, 6.5% H, and 7.1% N, giving a formula of $C_{11}H_{13}O_3N$. The computed composition is 63.77% C, 6.28% H, and 6.76% N. An aqueous solution (20%) of alkali and this compound were then placed in a container and heated for 3 hours, with shaking. During this time the butyl alcohol was distilled off, and the ammonia was removed by air. The mixture was then cooled and acidified with 50% sulfuric acid. The precipitated acid was filtered, washed with a small quantity of ice water, and dried. The yield was 70-73% of theoretical. The boiling point is 217°C. The measured composition is 48.75% C, 3.68% H, giving $C_7H_6O_5$. The computed composition is 49.41% C, 3.53% H. Orig. art. has: 2 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: OC, MT

NO REF Sov: 003

OTHER: 002

Card 2/2 n/a

SHMAGINA, N.N.; MOSHKIN, P.A.

Synthesizing 5-aminomethyl-2-furancarboxylic acid and its butyl
ether. Plast. massy no.1:45-46 '65. (MIRA 18:4)

PHASE I BOOK EXPLOITATION 807/5308

Москв. Научно-исследовательский институт машиностроения
машиностроения.

Прогрессивная технология в вопросах автоматизации: научно-технический
процесс [Advanced Processing and Problems of Automation of Die-Forming
Operations]. Москва, Канси, 1960. 1265 p. (Series: Its: Научные труды,
No. 3) 5,500 copies printed.

Sponsoring Agency: Государственный комитет Совета Министров ССРР по атомной
и машиностроению.

Editorial Council: Н.Н. Васильев, В.П. Выткин, В.И. Дородов, П.К. Дуров, А.Р.
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Chief Ed.: А.И. Зотьев, Ed. of Publishing House: Г.М. Соловьев, Tech. Ed.: О.В.
Балакин; Managing Ed. for Literature on Heavy Machine Building: С.М. Голорин,
Engineer.

PURPOSE: This collection of articles is intended for personnel engaged in research
working and for students in mechanical-engineering schools of higher education.
COVERAGE: The following problems in advanced processing by pressworking are re-
viewed: flatless drop forging; multipass cold rolling; cold extrusion; hole
piercing instead of drilling; small-radius bending of metal sheets; straightening
of thin-walled tubes; and embossing. Methods are given for selecting
parameters and hole size for rotary feed on crank presses. No personalities are
mentioned. References accompany each article. There are 57 references:
56 Soviet and 1 English.

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Card 4/4

(D)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5

SHIMAGNO, V.G., inzh.; MATRENINSKIY, I.V., inzh.

Stand testing of an experimental single disk pneumatic friction clutch with a retinax bearing. [Nauch. trudy] ENIKMASHA 11:
78-92 '65. (MIRA 18:6)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5"

GOLOKOLENKO, I., polkovnik; MANT, M., podpolkovnik; FEDOSEYEV, I., polkovnik;
ANISIMOV, V., polkovnik; YUDIN, I., mayor; SHMAGUN, V., mayor;
MATROSOV, V., kapitan; NEVREV, I., mayor; ANDRIANOV, V., mayor

Communism will become a reality. Voen.vest. 41 no.12:8-18 D '61.
(MIRA 15:3)

(Communist Party of the Soviet Union--Congresses)
(Russia--Armed forces--Political activity)

DENSHCHIKOV, Mikhail Tikhonovich, kand.tekhn.nauk; SILIN, P.M., prof., red.; VESELOV, I.Ya., prof., red.; SMIRNOV, V.A., prof., red.; RZHEKHIN, V.P., red.; LEEDEV, P.P., Red.; KOVALENKO, Yu.T., red.; KUPCHINSKIY, P.D., red.; BENIN, G.S., red.; P'YANKOV, A.G., red.; SHNAYDMAN, L.O., red.; MOREV, N.Ye., red.; SHMAIN M.M., red.; BULGAKOV, N.I., red.; MAYOROV, T.S., red.; TERNOVSKIY, N.S., red.; RAZUVAYEV, N.I., red.; OGORODNIKOV, S.T., red.; BURMAN, M.Ye., red.; KHOLOSTOV, V.A., red.; NAMESTNIKOV, A.F., red.; NASAKIN, T.N., red.; KOVALEVSKAYA, A.I., red.; KISINA, Ye.I., tekhn. red.

[Wastes from the food industry and their utilization] Otkhody pishchevoi promyshlennosti i ikh ispol'zovanie. Izd. 2., dop. i perer. Moskva, Pishchepromizdat, 1963. 615 p. (MIRA 16:6)
(Food industry--By-products)

GOROSHENKO, Mikhail Konstantinovich; NUDEL'MAN, G.E., inzh.,
retsgenzerntl SHMAIN M.M., inzh., retsgenzernt; ITSKOVICH,
Ya.S., inzh., spets. red.; PRITYKINA, L.A., red.; SOKOLOVA,
I.A., tekhn. red.

[Machines and machinery units for dough preparation] Mashiny
i agregaty dlja prigotovlenija testa. Moskva, Pishcheprom-
izdat, 1963. 147 p. (MIRA 16:8)

(Bakeries--Equipment and supplies)

SOV/123-59-15-59974

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 154 (USSR)

AUTHORS: Ryakin, A., Shmakalov, P.

TITLE: Single-Stroke Pneumatic Hammer

PERIODICAL: Narodnoye kh-vo Sov. Latvii, 1958, Nr 1, pp 32 - 33 (Russian)

ABSTRACT: A pneumatic single-stroke hammer for assembling work (riveting, stamping) is described which was developed at the "Avtoelektropribor" Plant. The hammer consists of three main parts: Frame, working cylinder with piston and air accumulator. At a stroke of 200 mm the hammer develops a force of impact of 7 kgm. The plunger of 30 mm in diameter and 0.5 kg of weight subjected to a pressure of 6 kg/cm² obtains a corresponding acceleration and, at a length of stroke of 200 mm, develops a power of 7 kgm, which is transmitted to the head. The force of impact changes, depending on the necessary deformation of the rivet. With a deformation of the rivet end by 1 mm, the force of impact amounts to 7,000 kg. 3 figures.

B.L.D.

Card 1/1

SHMAKALOV, P.A.; ROMANOVSKAYA, Ye.I.

"Transmissions with flexible wire shafts" by G.I.Kogan-Vol'man.
Reviewed by P.A.Shmakalov, E.I.Romanovskaya. Avt.prom. 28
no.10:3 of cover. 0 '62. (MIRA 15:9)

1. Rizhskiy zavod "Avtoelektropribor".
(Motor vehicles--Transmission devices)
(Kogan-Vol'man, G.I.)

SHMAKIN, B.M.

Muscovite metamorphoses in scapolite from the Kuranakh River
(Aldan Plateau). Trudy MGRI 31:130-133 '57. (MIRA 11:6)
(Kuranakh Valley--Muscovite)
(Scapolite)

SHMAKIN, B.M.

Archean graniteoids in the Kuranakh phlogopite-bearing area in the
Aldan. Izv. vys. ucheb. zav.; geol. i razv. l no.10:46-60 O '58.
(MIRA 12:9)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.
Kafedra mineralogii.
(Aldan Plateau) (Aldan Plateau--Phlogopite)

SHMAKIN, B. M., Candidate Geolog-Mineralog Sci (diss) -- "The mineralogy and genesis of the Kuranakh phlogopite deposits (Yakut ASSR)". Moscow, 1959. 21 pp (Min Higher Educ USSR, Moscow Geological-Prospecting Inst im S. Ordzhonikidze), 120 copies (KL, No 24, 1959, 131)

SHMAKIN, B.M.

Phlogopite-bearing diopsides in the Kuranakh deposits (southern
Yakutia). Izv. vys. ucheb. zav.; geol. i razv. 2 no.1:74-82 Ja '59.
(MIRA 12:10)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.
(Kuranakh Valley--Phlogopite)
(Kuranakh Valley--Diopside)

SEMAKIN, B.M.

Scientific technological conference of the Krasnoyarsk Institute of
Nonferrous Metals. Izv. vys. ucheb. zav.; geol. i razv. 3 no.5:148-
150 My '60. (MIRA 13:11)

(Nonferrous metals)

MIKUNOV, M.F.; SHMAKIN, B.M.; POLYKOVSKIY, V.S.; BAKALDINA, A.I.

Scientific conference of the Moscow Geological Prospecting
Institute. Izv. vys. ucheb. zav., geol. i razv. 3 no. 12:109-
120 D '60. (MIRA 14:5)

(Prospecting--Congresses)

GALYUK, V.A.; SHMAKIN, B.M.

Spinel in phlogopite deposits of southern Yakutia. Zap.Vses.-
min.ob-va no.6:643-652 '61. (MIRA 15:2)
(Yakutia--Spinel)

SHMAKIN, B.M.

Characteristics of the mineralogy and genesis of Kuranakh Phlogopite deposits (Aldan region). Trudy MGRI 37:60-81 '61. (MIRA 15:1)
(Kuranakh Valley--Phlogopite)

GALYUK, V.A.; SHMAKIN, B.M.

Mylonites and mylonitized rocks of the Emel'dzhak phlogopite
deposit (southern Yakutia). Izv.vys.ucheb.zav.;geol.i razv.
4 no.9:67-77 S '61. (MIRA 14:9)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Yakutia--Mylonite) (Yakutia—Phlogopite)

SHMAKIN, B.M.; STEPPAN, N.O.

Two sphenes from Archean pegmatites in the Aldan Shield.
Izv.vys.ucheb.zav.;geol.i razv. 4 no.10:59-65 O '61. (MIRA 14:12)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze.
(Aldan Plateau--Titanite):

SHMAKIN, B.M.

Relationship between the fluorine content and the iron content
in phlogopites. Geol. i geofiz. no.6:80-83 '62. (MIRA 15:7)
(Fluorine) (Iron) (Phlogopite)

SHMAKIN, B.M.

Variations in the alkalinity of postmagmatic solutions in the
process of phlogopite formation. Dokl. AN SSSR 144 no.5:1148-
1151 Je '62. (MIRA 15:6)

1. Institut geokhimii Sibirskogo otdeleniya AN SSSR. Predstavлено
академиком D.S.Korzhinskim.
(Kuranakh River Basin--Phlogopite)

SHMAKIN, B.M.

Wave of acidity of postmagmatic solutions in mica-bearing
pegmatites. Dokl. AN SSSR 152 no.4:979-982 O '63. (MIRA 16:11)

1. Institut goekhimii Sibirskogo otdeleniya AN SSSR.
Predstavлено академиком D.S. Korzhinskим.

TAUSON, L.V., doktor geol.-miner. nauk, otv. red.; ZNAMENSKIY,
Ye.B., red.; LIN, N.G., red.; POZHARITSKAYA, L.K., red.,
red.; SEMAKIN, B.M.; ZNAMENSKAYA, M.T., red.-va;
VOLKOVA, V.V., tekhn. red.; SIMKINA, G.S., tekhn. red.

[Geochemistry of rare elements in igneous rocks] Geokhimia
redkikh elementov v izverzhennykh gornykh porodakh.
Moskva, Izd-vo "Nauka," 1964. 152 p. (MIRA 17:3)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut
geokhimii.

SIMAKIN, B.M., kand. geol.-miner. nauk, oty. red.

[Geochemistry and petrology of magmatic and metasomatic formations] Geokhimiia i petrologiia magmaticheskikh i metasomaticheskikh obrazovanii. Moskva, Nauka, 1965. 194 p.
(MIRA 18:11)

l. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut
geokhimii.

SHMAKIN, I.G., inzh.

Experimental determination of the normal force acting on the leading edge of a cutter in breaking coals. Izv. vys. ucheb. zav.; gor. zhur. 5 no.10:98-101 '62. (MIRA 15:11)

l. Tul'skiy mekhanicheskiy institut. Rekomendovana kafedroy rascheta i konstruirovaniya gornykh mashin.
(Coal mining machinery--Testing)

SHMAKIN, Konstantin Nikolayevich; SYROVATKO, Fedor Ageyevich

[Seminar in obstetrics; practical obstetrics] Akusherskii
seminar; prakticheskoe akusherstvo. Moskva, Medgiz, 1960.
520 p. (MIRA 13:9)

(OBSTETRICS)

SHMAKIN, K.N. (MOSCOW, USSR)

Vaginal and abdominal operation methods in Soviet Obstetrics.

Report submitted for the 3rd World Congress, Intl. Federation of
Gynecology and Obstetrics, Vienna, Austria, 3-9 Sep 1961.

YAN, V.M., inzh.; LATIN, A.L., inzh.; GOROKOV, A.V., inzh.; SAMAROV, A.A., inzh.;
MAYORKVA, T.S., inzh.; SHUKINA, N.E., inzh.; GUSEV, R.D., inzh.

Developing an experimental 1,000 ton hydraulic press for the pressing
of 300 mm.-high refractory products. Truly Inst. ogneupor. no.34:141-163
'63. (MIRA 17:10)

1. Vsesoyuznyy institut ogneuporov (for Shukina). 2. Trest "Ogneupornerud"
(for Gusev).

KONSTANTINOV, A.A.; STAROSTINA, I.S.; SHMAKOTINA, Z.V.

Aldolase and transaminase activity of the blood serum and urine
in some diseases. Vop. med. khim. 7 no.5:485-487 S-O '61;
(MIRA 14:10)

1. The Chair of Biochemistry of the Medical Institute and the
Biochemical Laboratory of the Research Institute for Epidemiology
and Hygiene, Khabarovsk.
(ALDOLASE) (TRANSAMINASE)

GRITSENKO, A.N.; MAKAREVICH, N.I.; TROFIMOV, L.I.; SHMAKOTILA, Z.V.;
STAROSTINA, I.S.

Use of laboratory diagnostic methods for the early detection of
patients with epidemic hepatitis. Zhur. mikrobiol.; epid. i immun.
(MIRA 18:1)
41 no.6:47-51 Je '64.

1. Khabarovskiy institut epidemiologii i mikrobiologii.

SHMAKOV, A.

19984 SHWAKOV, A. Chesty Novogo. Ekonom. i kul't. preobrazovaniye kolkhoz.
derebni. kolkhoz im. Batutina. Uzbed. SSSR. Ochesk]. Zvezda Vostoka, 1949,
No. 5, s. 104-09.

SO: LETOPIS ZHURNAL STATEY, VOL. 27, Moskva, 1949.

SHMAKOV, A. A.: Master Med Sci (diss) -- "The dust in the residential sections of the city of Asbest and its effect on the health of the children". Sverdlovsk, 1958. 17 pp (Sverdlovsk State Med Inst), 200 copies (KL, No 5, 1959, 158)

SHMAKOV, A.A.

ROGINSKIY, Yakov Yakovlevich; LEVIN, Maksim Grigor'yevich; ZARANKIN,
V.M., redaktor; SHMAKOV, A.A, redaktor; TEREKHOVA, D.F., tekhnicheskij redaktor

[Fundamentals of anthropology] Osnovy antropologii. [Moskva] Izd-
vo Moskovskogo universiteta, 1955. 205 p. (MLRA8:10)
(Anthropology)

BOGDANOVA, Ye.K.; ROMANOVA, K.I.; SHMAKOV, A.D. (Khabarevsk).

Organization of pyodermitis control in industry. Gig.
truda i prof. zab. 7 no.1:50-51 Ja'63 (MIRA 16:12)

1. Klinika kozhnykh i venericheskikh bolezney Khabarevskogo
meditsinskogo instituta.

L 00010-6Q EWP(m)/EWP(w)/EWP(t)/ETI
ACC NR: AP6027798

IJP(c) FDN/JD/JG/DJ

SOURCE CODE: UR/0126/66/022/001/0138/0140

AUTHOR: Mironov, O. S.; Shimakov, A. D.; Batenina, O. I.; Novikova, K. Z.; Danielyan,
T. A.; Tyukalov, Yu. M.

ORG: none

TITLE: Effect of oxides on the properties of molybdenum

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 1, 1966, 138-140

TOPIC TAGS: molybdenum, oxide formation, brittleness, metal grain structure

ABSTRACT: Oxygen is a harmful impurity in molybdenum, inducing its embrittlement at low temperatures. However, the causes of this have not previously been elucidated. Northcott (Sb. Molibden, pod. red. A. K. Katansona, M., IIL, 1959, str. 52) claims that oxygen is present in Mo in the form of the oxide MoO_2 , but it would be more correct to assume that the composition of the oxides is not unambiguous and should be expressed by the formula $\text{Mo}_{1-x}\text{O}_y$. To investigate the behavior of molybdenum oxides during heating and cooling, an oxide close in composition to that of MoO_2 was obtained following partial reduction of the polymorphic oxide MoO_3 . The obtained powder was pressed into 10x10 mm briquets and sintered in an argon

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UDC: 541.45+539.56+546.77

L 09019-67
ACC NR: AP6027798

atmosphere at 1000°C for 6 hr. After this, the oxide's coefficient β of linear expansion at high temperatures (up to 800°K) was measured with the aid of dilatometers, and its phase composition before and after sintering examined by x-ray structural analysis; the roentgenograms indicated that the composition of the investigated oxide corresponds to that of Mo_2O_3 . An analysis of the temperature dependence of β (coefficient of linear expansion) showed that at from 150 to 20°C the value of β for Mo_2O_3 sharply decreases. Any further decrease in temperature, however, leads to a sharp rise in β . Considering that a similar anomaly is observed for MoO_3 , it may be assumed that this effect is characteristic of molybdenum oxides in general. These findings also serve to elucidate the effect of oxygen on the properties of Mo with decrease in temperature. The mean β for Mo varies from $5.1 \cdot 10^{-6}$ at 0°C to $5.59 \cdot 10^{-6}$ at 500°C (Teplofizicheskiye svoystva veshchestv, spravochnik pod red. N. B. Vargaftika, M., Gosenergoizdat, 1956); the β for the oxide is somewhat lower. Moreover, at <100°C the β for the oxide sharply decreases. Then the volume of inclusions of molybdenum oxides decreases at a slower rate than the volume of the surrounding metal. If an oxide particle is present within a grain, the latter is subjected to internal compressive stresses which lead to an increase in hardness and decrease in plasticity. A more harmful effect is exerted by the oxide particles when they occur in between the grains. In this case tensile stresses leading to brittle intercrystalline fracture arise at the surfaces of contact between grains. Moreover, it is known that oxides

BERNSHTEVN, N.D.; GOLOD, I.S.; GOLOSINSKIY, S.Ya.; ZAYTEV, A.N.; POGORELOV, E.M.;
SMIRNOV, S.V.; SHAMSHTEYN, M.G.; SHMAKOV, A.G.

23TK-1 motion-picture contact printer st. Tekh.kino i telev. 4
no.10:10-19 0'60. (MIRA 13:10)

1. TSentral'noye konstruktorskoye byuro Ministerstva kul'tury SSSR i
Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut, Laboratoriya
obrabotki tsvetnykh fil'mov.
(Motion-picture photography--Equipment and supplies)
(Color photography--Printing processes)

SMAGORINSKIY, B.S.; SHMAKOV, A.I.; BURYANOV, N.S., tekhn. red.

[People with creative minds] Liudi tvorcheskoi mysli:
A.P.Adamian, A.A.Kuprin, IU.A.Nechaev, G.E.Shevniakov,
K.F.Ponomarev, IA.IA.IAkimenko, A.I.Stukalov, V.N.
Riaguzov, G.I.Demidov, A.U.Alekseev. Volgograd, Volgo-
gradskoe knizhnoe izd-vo, 1962. 110 p. (MIRA 16:6)
(Technological innovations)

SIMAKOV, Anatoliy Il'ich; GAGARIN V. P. et al. ~~typed.~~

[Volunteer design bureau] "Korabl" (Volzgogradskie korabli i sputniki),
skoe biuro. Volzgograd, Volzgogradskoe knizhnoe izdatelstvo,
1962. 49 p.

(MIRA 18:2)

SIMAKOV, Anatoliy Il'ich; SAGORINSKIY, B.S., red.

[New developments in the technology of metal cutting]
Novoe v tekhnologii obrabotki metallov. Volgograd, Volgo-
gradskoe knizhnoe izd-vo, 1963. 133 p. (MIRA 17:9)

DMITRIYEV, S.I., inzh.; AL'KHIMOVICH, V.P., inzh.; KARTASHEV, Yu.M.,
inzh.; SHMAKOV, A.P., tekhnik

Mechanization of mining coal under a flexible metal covering.
(MIRA 17:10)
Ugol' 39 no.8:62-65 Ag '64.

SHMAKOV, A. T.

33205. Mekhanizirovannaya Opravka Shpal. les. Prom-St', 1949, No. 10, c. 12-14

SO: Letopis 'Zhurnal 'nykh Statey, Vol. 45, Moskva, 1949

~~SHMAKOV, A.T.~~ SHMAKOV, A.T.

ZHELUDKOV, A.G.; SHMAKOV, A.T.

[Manual on sawing railroad ties; for masters and crew chiefs in
rail tie plants] Posobie po shpalopileniu. Dlia masterov i
brigadirov shpalozavodov. Moskva, Goslesbumizdat, 1954. 194 p.
(Railroads--Ties) (Sawmills) (MIRA 7:7)

MEYNERT, Vladimir Adamovich; CHEKRYGIN, Ivan Gavrilovich; SHMAKOV,
Aleksey Timofeyevich; GOROVY, G.M., red.; STEPANOV, V.M.,
red. izd-va; DONSAYA, G.D., tekhn. red.

[Road-building machinery; a manual for tractor operators]
Dorozhno-stroitel'nye mashiny; posobie traktoristu. Moskva,
Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh
dorog RSFSR, 1960. 174 p. (MIRA 15:3)
(Road machinery)

ZHELUDKOV, Aleksandr Georgiyevich; SHMAKOV, Aleksey Timoveyevich;
SHPUNT, G.M., red.; LYAKHOVICH, E.A., red.izd-va; KORNYUSHINA,
A.S., tekhn.red.

[Tie manufacture] Shpalopil'noe proizvodstvo. Moskva, Goslesbum-
izdat, 1960. 223 p.
(Railroads--Ties)

SHMAKOV, A.T.; GAYTSGORI, Sh.Z.; Prinimal uchastiye: Strongin, A.M., inzh.;
KUZNETSOV, G.A., red.; EGGERT, A.P., tekhn. red.

[Manual for a mechanic in furniture factories] Spravochnik mekhanika
mebel'nykh predpriiatii. Pod obshchei red. A.M.Strongina. Moskva,
Vses. koop. izd-vo, 1960. 631 p. (MIRA 14:7)

(Furniture industry—Equipment and supplies)
(Machinery—Maintenance and repair)

SHMAKOV, A.T.; TUSHNYAKOV, M.D., nauchnyy red.; ZVORYKINA, L.N.,
red. izd-va; RODIONOVA, V.M., tekhn. red.

[Operation of cranes on pneumatic tires] Rabota na pnevmo-
kolesnykh kranakh. Moskva, Gosstroizdat, 1962. 203 p.
(MIRA 15:9)

(Cranes, derricks, etc.)

MEYNERT, Vlazimir Adamovich; CHEKRYGIN, Ivan Gavrilovich; SHMAKOV, Aleksey Timofeyevich; STEPANOV, V.M., red.; GANYUSHIN, A.I., red. izd-va; MAL'KOVA, N.V., tekhn. red.

[Road machinery: handbook for the tractor driver] Dorozhno-stroitel'nye mashiny; posobie mashinistu traktorov. Izd.2., ispr. i dop. Moskva, Avtotransizdat, 1962. 234 p. (MIRA 15:6)
(Road machinery)

SHMAKOV, Aleksey Timofeyevich; BLINOV, O.S., retsenzent;
BAZICHENKO, L.P., retsenzent; KROTOV, V.R., red.

[Manual for bulldozer, scraper, and grader operators]
[Manual for bulldozer, scraper, and grader operators]
Posobie bul'dozeristu, skreperistu i greideristu. Mo-
skva, Goslesbumizdat, 1963. 153 p. (MIRA 17:6)

...n. 1.

Dissertation: "An Ecogeometric Method of Surveying Cut Forest Roads." Gomel' Politekhnicheskii
Institut, Forestry Engineering Institute, 49 Jan 54. (Vechernaya Moskva, Moscow,
21 Jan 54.)

See: CIA RDP, 25 Dec 1954

22(1)
30(1)

SOV/3-59-4-33/42

AUTHOR: Shmakov, B.P., Candidate of Technical Sciences, Docent

TITLE: Cooperation With a Planning Organization

PERIODICAL: Vestnik vysshey shkoly, 1959, Nr 4, pp 78-79 (USSR)

ABSTRACT: The permanent business connections, which were established in 1956 between the Forest-Engineering Department of the Ural Forest-Engineering Institute and the largest forest planning organization of the Urals, the Urallesproekt (now Lesnoy proyektnyy institut - Forest Planning Institute), have borne fruit. Workers of the Chair of Geodesy and Institute students have, in cooperation with members of the Planning Institute, developed a new method of projecting timber enterprises. The author tells of the participation of students in expeditions arranged by the planning organization. On this occasion they work practically with the new engineering and geodetic instruments and devices with which they were made familiar at the Institute. On the other hand, workers of the technical and prospecting sections of the

Card 1/2

1. SHMAKOV, D. G.
2. USSR (600)
4. Moscow - Public Works
7. Zhdanov district of the capital. Gor khoz Mosk No 6 1949
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SH MAKOV, E.M.
9(6)

PHASE I BOOK EXPLOITATION SOV/2557

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti.
Leningradskoye oblastnoye pravleniye

Provolochnaya tenzometriya (Theory and Application of Wire Strain
Gages) Moscow, Mashgiz, 1959. 138 p. (Series: Leningradskiy
dom nauchno-tekhnicheskoy propagandy, kn. 51) 3,500 copies
printed.

Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo priborostroi-
tel'noy promyshlennosti.

Ed.: A.M. Turichin; Ed. of Publishing House: M.A. Chfas; Tech.
Ed.: L.V. Shechetinina; Managing Ed. for Literature on the
Technology of Machine Building (Leningrad Division, Mashgiz):
Ye.P. Naumov.

PURPOSE: This collection of papers is intended for engineers,
scientific workers, and technicians making calculations for
strength in machinery.

Card 1/5

SHMAKOV, E.M.

Equipment with wire transducers for measuring soil shifts caused by
vibration. [Izd.] LONITOMASH 51:25-31 '59. (MIRA 12:12)
(Soil mechanics) (Electronic measurements)

ZCRIN, D.I., dots., kand. tekhn. nauk; MITKEVICH, A.V., dots., kand. tekhn. nauk; SHMAKOV, E.M., ass.; SHRAMKOV, Ye.G., prof., doktor tekhn. nauk; ASHKENAZI, E.L., red.; AKSEL'KOD, I.Sh., tekhn. red.

[International electrotechnical vocabulary. Group 20: Scientific and industrial measuring instruments] Mezhdunarodnyi elektro-tehnicheskii slovar'; gruppa 20: Laboratornye i tekhnicheskie izmeritel'nye pribory. Izd.2. Moskva, Glav.red.inostr. nauchno-tekhnik. slovarei Fizmatgiza, 1962. 225 p. (MIRA 16:1)

1. International Electrotechnical Commission.
(English language—Dictionaries—Polyglot)
(Electric engineering—Dictionaries)

L 6856-65 EPA(s)-2/EWT(m)/EPF(n)-2/EPA(w)-2/EWP(a)/EWP(b)/EWA(h) Pg-4/
Pt-10/Pu-4/Pab-24/Peb AFWL/BSD/AFTC(a)/ASD(a)-5/AFMDG/AEDC(b)/AFETR/AFTC(p)/
SSD/ASD(d)/AEDC(a)/ESD(dp)/ESD(t) S/0272/64/000/006/0050/0050 110
ACCESSION NR: AR4044265 109

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika. Otdel'nyy vypusk,
Abs. 6. 32. 355

AUTHOR: Kozlov, I. M.; Shmakov, E. M.

TITLE: Accelerometer for operation in an expanded range of frequencies and
temperatures

CITED SOURCE: Uch. zap. aspirantov i soiskateley. Leningr. politekhn. in-t.
Elektroizmerit. tekhn. i avtomatika. L., 1963, 32-36

TOPIC TAGS: acceleration, acceleration measurement, accelerometer, quartz,
measuring instrument 9M 9

TRANSLATION: There is described an accelerometer, designed and prepared
at Leningrad Polytechnic Institute, intended for work at a temperature to +200°
C in the frequency range from 5 to 2500 cps. The limits of measurements are
from 0.1 to 15 g. As the piezoelectric material for the sensitive element is
Card 1/2 15

L 6856-65

ACCESSION NR: AR4044265

selected quartz; connection of the sensitive element with the base and the inertial mass is done by means of soldering; the converter of the accelerometer with the measuring amplifier is a high-temperature antivibration cable with Teflon insulation. The sensitivity of the accelerometer combined with the connecting high-temperature cable is 3.3 mv/d. The accelerometer error does not exceed +1.2%. The weight of the accelerometer converter is 35 g.

SUB CODE: ME

ENCL: 00

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5

TISHCHENKO, A., inzhener-podpolkovnik; SAMOSBYEV, A., inzhener-polkovnik;
SHMAKOV, F., inzhener-podpolkovnik

Park day, a day of technology. Tekh. i vsevuzh. no.4:51-56 Ap '64.
(MIRA 17:9)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5"

L 45273-66 EWT(1)/T-2/EWP(h) IT

ACC NR: AP6015007 (4) SOURCE CODE: UR/0209/66/000/005/0071/0076

AUTHOR: Shmakov, G. (Colonel, Corps of Engineers)

20
G

ORG: none

TITLE: Aircraft maintenance at an airfield

SOURCE: Aviatsiya i kosmonavtika, no. 5, 1966, 71-76

TOPIC TAGS: aircraft maintenance, aircraft maintenance equipment

ABSTRACT: The article deals with the organization of technical aircraft-maintenance service at an airfield. The service is organized as a branch of the technical maintenance unit of an air base. Laboratory equipment, aviation equipment, and an electric-power unit are mounted on special trucks and trailers. The organizational structure of the technical maintenance service at an airfield are shown in mockups.
Orig. art. has: 3 figures.

[NT]

SUB CODE: 15/ SUBM DATE: none/

Card 1/1 *fdm*

S/137/61/000/012/067/149
A006/A101

AUTHORS: Semenov, Yu. N., Shmakov, G. S.

TITLE: New cermet alloy for electrode-tools of electric-spark metal working machines and for electrodes of spot welding machines

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1961, 49 - 50, abstract 120348 ("Tr. Proyektn. tekhnol. i n.-i. in-ta, Gor'kovsk. sov-narkhoz", 1960, no. 1 (3), 78 - 88)

TEXT: A new cermet electrode alloy was developed on Cu base with 2.5 - 3% Al_2O_3 . The alloy was prepared by the joint reduction, with dissociated ammonia, of a mixture of Cu-scale powder and an aqueous solution of AlCl_3 . Al_2O_3 introduced by a chemical way, assured a greater heat resistance of the given alloy as compared to MU-4 (MTs-4) alloy. Density, approaching 100%, is obtained by pressing at 5 t/cm² pressure, sintering at 800°C for 2 hours, additional pressing at 10 t/cm² pressure and extrusion of blanks, heated up to 1,000°C, through a die on a hydraulic press. Electric conductivity of the alloy is 70 - 74% of that of Cu. Cermet electrodes are more durable than electrodes from other alloys.

Card 1/2

S/137/61/000/012/067/149
A006/A101

New cermet alloy for...

they assure higher efficiency and quality of treatment. The alloy is produced from rejects and in the case of mass production it can be cheaper than rolled copper.

A. Epik

[Abstracter's note: Complete translation]

Card 2/2

S/137/62/000/001/063/237
A060/A101

AUTHORS: Semenov, Yu. N., Shmakov, G. S., Yablokova, L. A.

TITLE: Technique for obtaining an alloy of copper and aluminum oxide, and its characteristics

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 40, abstract 10311 ("Poroshk. metallurgiya," 1961, no. 3, 40-46, English summary)

TEXT: Alloys of Cu-Al₂O₃ (1 - 3.5% Al₂O₃) were prepared by the mixing of rolling Cu cinders and a water solution of Al trichloride. After drying the mixture was reduced in dissociated NH₃ at 700°C. The weak sinterability of the charge and also additional experiments on the heating of briquets up to 1,100°C (the briquets did not lose their form under this treatment) testify to the fact that under this method of mixing the oxides are uniformly distributed over the surface of the Cu particles. The production of compact specimens of Cu-Al₂O₃ was realized by pressing, sintering, and repressing of the specimens, and also by hot-nozzle pressing. The results of the measurement of the electric conductivity of the specimens and of the hardness as a function of the annealing temperature are cited. Al₂O₃ additions inhibit the recrystallization process.

Card 1/2

S/137/62/000/001/063/237

A060/A101

Technique for obtaining an alloy ...

As shown by operational tests, the alloy Cu-Al₂O₃ may be recommended for fabricating electrode-tools of electric-spark treatment machines and for electrodes of spot-welding machines.

R. Andriyevskiy

[Abstracter's notes Complete translation]

Card 2/2

L 20751-66 EWA(h)/EWP(c)/EWP(k)/EWT(d)/EWT(m)/EWP(h)/ETC(m)-6/ETC(f)/ENG(m)/I/EWP(1)

ACC NR: AP6009625 EWP(e)/EWP(v)/EWP6 SOURCE CODE: UR/0182/66/000/003/0001/0003
IJP(c) AT/WH/JD/HW/JG

AUTHOR: Zhivov, L. I.; Semenov, Yu. N.; Skornyakov, Yu. N.; Shmakov, G. S.

ORG: none

TITLE: Investigation of hot compacting and extrusion of sintered copper-boron nitride alloy

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 3, 1966, 1-3

TOPIC TAGS: copper alloy, boron nitride containing alloy, alloy compacting, hot compacting, sintered alloy, alloy extrusion

ABSTRACT: Electrolytic ¹¹ ₁₆ copper powder PM-2 mixed with 1, 2, 3, 4, or 5% boron nitride was compacted under 4 t/cm^2 pressure into briquettes 38 mm in diameter and 30 mm high. Briquettes were sintered at 920C for 2 hr in ammonia gas and extruded at 700, 800, or 900C to 12, 16, and 20 mm in diameter, i. e., with respective extrusion ratios $\epsilon = 2.41, 1.87, \text{ and } 1.39$. With these reductions the bars had a density of 98%. Lower reduction ($\epsilon = 1.2$) produced bars with 95% density, whose electric conductivity was found to be lower. Examination of the microstructure and hardness tests of alloys annealed at 300—800C showed that recrystallization of copper-boron nitride alloys proceeds much slower than that of copper. Sintered copper underwent a complete recrystallization in two hours at 800C, while copper-boron nitride alloys still had the deformation texture. The alloys with a high content of boron nitride require a high

Card 1/2

UDC: 621.984.5

L 20751-66

ACC NR: AP6009625

extrusion pressure. This can be explained by the recrystallization delaying effect of the dispersed boron-nitride phase. High-quality extrusions from this alloy can be obtained by extrusion at 820—880C with ratios of at least 2.0 for alloys with 2% boron nitride, or at least 2.4 for alloys with 2—5% boron nitride. Orig. art. has: 3 figures. [ND]

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS:

4224

Card 2/2

BOGATYRENKO, Zakhariy Semenovich; SHMAKOV, Ivan Stepanovich, kand. ekonom.nauk; GANSHTAK, Vladimir Iosifovich, kand.ekonom.nauk; SHNAYDER, Mikhail Vladimirovich; SAVCHENKO, Ye.V., tekhn.red.

[Basic means for reducing industrial costs] Osnovnye puti snizheniya sebestoimosti promyshlennoi produktsii. Moskva, Izd-vo "Znanie," 1959. 79 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.3, Ekonomika, nos.26-27) (MIRA 12:8)

1. Nachal'nik planovogo otdela zavoda "Kauchuk" (for Shnayder).
(Costs, Industrial)

TODOROV, Stanko; SHMAKOV, L. [translator]; BIDINSKAYA, L., red.;
TROYANOVSKAYA, N., tekhn.red.

[Struggle of Bulgarian Communists for the socialist re-
organization of agriculture] Bor'ba bolgarskikh kommunistov
za sotsialisticheskuiu perestroiku sel'skogo khozaiistva.
Moskva, Gos.izd-vo polit.lit-ry, 1959. 133 p. (MIRA 12:4)

1. Sekretar' Tsentral'nogo komiteta Bolgarskoy kommunisticheskoy
partii (for Todorov).
(Bulgaria--Agriculture)

SHMAKOV, M.G., inzh.

Perishable bulk cargo motorboat "Volgo-Don-1" for river navigation.
Sudostroenie 27 no.4:79 Ap '61. (MIRA 14:3)
(Freighters) (Inland water transportation)

SHMAKOV, M., mekhanik

Our experiment of work without boiler cleaning. Rech. transp. 14
no.5:4-6 My '55. (MIRA 8:7)

1. Parakhod "Dubna". Moskovskoye parokhodstvo.
(Feed water purification) (Boilers, Marine)

SYNAKOV, M.G.

Transactions of the Gorkiy provincial administration of the
Scientific and Technical Division for the Shipbuilding Industry.
Sudostroenie 23 no.6:55 Je '57. (MIRA 10:7)
(Gorkiy--Shipbuilding)

SHMAKOV, M.G., inzh.

Experience in using rubber-metal bearings. Sudostroenie 24 no.4:52-53
Ap '58. (MIRA 11:4)
(Bearings) (Shafting)

VELIKOSEL'SKIY, Nikolay Dmitriyevich; KLIMOV, Andrey Stepanovich; SHMAKOV,
Mikhail Georgiyevich; KRAKOVSKIY, I.I., nauchnyy red.; KAZAROV,
Yu.S., red.; TSAL, R.K., tekhn.red.

[Ship equipment on towing trains; their design and calculations]
Sudovye ustroistva tolkaemykh sostavov; proektirovanie i raschet.
Leningrad, Gos.sciuznoe izd-vo sudostroit.promyshl., 1959. 235 p.
(MIRA 13:1)

(Towing--Equipment and supplies) (Inland navigation)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5

SHMAKOV, M., inzh. (g.Gor'kiy)

Development of welding techniques. NTO no.6:40 Je '59.
(MIRA 12:9)
(Welding research)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5"

SHMAKOV, M., inzh. (g.Gor'kiy)

Automatic control of ship mechanisms. NTO no.6:60 Je '59.
(MIRA 12:9)

(Automatic control) (Marine engines)

SHMAKOV, M.G., inzh.

Sectional barge trains for use on rivers and lakes. Sudostroenie 25
no.1:89-90 Ja '59. (MIRA 12:3)
(Barges)

SHMAKOV, M.G., inzh.

Pusher tugs to be used in the Volga and Kama Basins. Sudostroenie 25
(MIRA 12:4)
no.2:82 F '59.
(Volga Basin--Tugboats)

SHMAKOV, M.G., inzh.

Conference on automatic control of main and auxiliary
marine engines. Sudostroenie 25 no.5:62-64 My '59.

(MIRA 12:8)

(Marine engines) (Automatic control)

SHMAKOV, M.G., inzh.

Diesel-electric passenger liner "Priamur'c." Sudostroenie 25 no.6:
54 Je '59. (MIRA 12:9)
(Ocean liners)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5

SHMAKOV, M.G., inzh.

"Plevna"-type pusher-tugs. Sudostroenie 25 no.8:68 Ag '59.
(MIRA 13-2)
(Tugboats)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5"

SHMAKOV, M.G., inzh.

Pusher tugboat named "Lublin". Sudostroenie 26 ton. (209) #72
Mr '60.
(Tugboats)

SHMAKOV, M.G., inzh.

Plans for new types of river vessels. Sudostroenie 26 no.9:81
S'60. (MIRA 13:10)
(Boats and boating) (Inland water transportation)

SHMAKOV, M.G., inzh.

Conference on the expansion and application of welding techniques.
Sudostroenie 27 no.5:73-74 My '61. (MIRA 14:6)
(Welding--Congress)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5

SHMAKOV, M.G., inzh.

Diesel-powered scow "Chernomorskaia-1." Sudostroenie 27
no. 6:80 Je '61. (MIRA 14:6)
(Scows)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549720017-5"

VOLKOV, V.D., inzh.; SHMAKOV, M.G., inzh.

Electric drive of disposal gates on dredger scows. Sudostroenie
28 no.9:20-24 S '62. (MIRA 15:10)
(Scows) (Remote control)

SHMAKOV, M.G., inzh.

Automobile ferry. Sudostroenie 29 no.2:1-3 F '63.

(MIRA 16:2)

(Ferries)

(Automobiles—Transportation)

SHMAKOV, M.G., inzh.

Immediate objectives of river craft shipbuilding. Sudostroenie
29 no.5:69-70 My '63. (MIRA 16:9)
(Shipbuilding—Congresses)

SIMAKOV, Mikhail Georgiyevich; KLIMOV, Andrey Stepanovich;
ALEKSANDROV, M.N., kand. tekhn. nauk, retsenzent;
MALOMEDOV, A.K., inzh., retsenzent; KRAKOVSKIY, I.I.,
doktor tekhn. nauk, prof., nauchn. red.; SHAKHNOVA,
V.M., red.

[Anchor and mooring gear; design and calculation]
I Akornye i shvartovnye ustroistva; proektirovanie i
raschet. Leningrad, Sudostroenie 1964. 415 p.
(MIRA 18:1)

ACC NR: AM6032719

Monograph

UR/

Shmakov, Mikhail Georgiyevich

Towing arrangements of vessels; design and calculation (Buksirnyye ustroystva sudov; proyektirovaniye i raschet) Leningrad, Izd-vo "Sudostroyeniye", 1966, 256 p. illus., biblio. 2500 copies printed.

TOPIC TAGS: marine engineering, shipbuilding engineering, marine equipment, towing vehicle

PURPOSE AND COVERAGE: The book is intended for designers, engineers, and technical workers in the shipbuilding industry, merchant marine, and the river fleet. It may also be used by students of higher education and technical schools for design projects and theses. The fundamentals of designing and calculating marine towing arrangements are presented. On the basis of current experience in design, construction, and operation, recommendations are given for planning and selecting parts and units of towing arrangements for seagoing and inland-waterway vessels. Modern types of towing arrangements and their mechanisms are described. There are 73 references, 71 of which are Soviet.

TABLE OF CONTENTS (Abridged):

Introduction -- 3

Card 1/2

UDC: 629.12.013

SHMAKOV, M. I.

USSR/Engineering - Hydraulic
Engineering, Dams Jan 51

"Earth Dam Made of Pebbles," M. I. Shmakov, Engr

"Gidrotekh Stroi" No 1, pp 24-27

Subject dams may be erected in great number in USSR especially in North Caucasus and Ural Mountains. One such dam built in North Caucasus was erected directly on alluvial deposits, and consisted of boulders, pebbles and sand with certain admixt of dusty-clay material. Study of this dam shows alluvial pebbles as satisfactory material for earth dams.

199T37

USSR/Engineering - Hydraulics, Dams, May 52
Materials

"Constructional Properties of Coarse Fragmental Grounds," M. I. Shmakov, Engr

"Gidrotekh Stroit" No 5, pp 26-29

Discusses properties of grounds which represent alluvial deposits of numerous temporary water streams. Main portion of these grounds consists of 10-50 cm fragments with numerous large chunks up to 10-30 cu m in volume. Space between large fragments is filled with

230T15

rubble, gravel and sand-clay material. Concludes that such grounds offer satisfactory foundation for hydraulic structures and may serve as material for earth dams upon sepn of fragments larger than 15 cm. Most favorable properties of coarse fragmental grounds are their low compressibility, comparatively high shear strength, and stability against suffusion.

230T15

SHIMAKOV, M. I.

✓2184. Shimakov, M. I., Utilization of gravel soils in earth dams (in Russian), *Gidrotekhnika Sreda*, 23, 3, 10-12, 1954.

For four large dams consisting of gravel materials, the grain size, bulk density, and permeability data are given. The influence of the grain-size distribution on the density, shearing strength, and permeability is discussed.

The best density was obtained with material containing 35-45% particles 20/80 mm and 20-30% particles < 2 mm. A content of 20% clayey silt doesn't diminish the shearing strength of gravel, while an addition of 50% reduces it to the strength of the added fine-grained soil. An addition of 5% silt and 5% clay reduces the permeability of the sand to a 5 to 10 times lower value. The permeability of the compacted dam material is rather greater than the permeability *in situ* of the same soil.

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